CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP.

05th May 2017

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Construction of drains at Vinayaka layout 3rd cross roads in ward no. 01.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at Vinayaka layout 3rd cross roads in ward no. 01.
Name of the Agency	Sri. Kumar Reddy
Date of Testing	05/05/2017

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	45	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	486	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

Note:

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3 Any correction invalidates this report.

4 The results are based on the test conducted on samples supplied by the customer.

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Quality Manager

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TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at Vinayaka layout 3rd cross roads in ward no. 01.
Name of Agency	Sri. Kumar Reddy
Date of Testing	05/05/2017
Specific Gravity	**2.56**
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**97.4**	90-100	90-100	90-100	95-100		
	2.36	**86.5**	60-95	75-100	85-100	95-100		
	1.18	**76.3**	30-70	55-90	75-100	90-100		
	0.6	**49.2**	15-34	35-59	60-79	80-100		
	0.3	**26.3**	5-20	8-30	12-40	15-50		
	0.15	**8.2**	0-10	0-10	0-10	0-15		

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at Vinayaka layout 3rd cross roads in ward no. 01.
Name of Agency	Sri. Kumar Reddy
Date of Testing	05/05/2017
Specific Gravity	**2.67**
Water Absorption	**0.29%**
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	**100**	100	**Satisfies the requirement**
40	**97.4**	95-100	
20	**54.6**	30-70	
10	**23.8**	10-35	
4.75	**4.0**	0-5	

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Khushboo

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at Vinayaka layout 3rd cross roads in ward no. 01.
Name of the Agency	Sri. Kumar Reddy
Date of Testing	05/05/2017
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	13.6	12	Satisfactory
5	Yield Stress(N/Sq.mm)	508	500	Satisfactory
6	U T S (N/Sq.mm)	564	545	Satisfactory

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Khushboo

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T-2654

To,

Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP.

22nd May 2017

Dear Sir,

Sub: Construction of drains at Vinayaka layout 3rd cross roads in ward no. 01. Testing of cubes – Reg.

As requested the 07th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at Vinayaka layout 3rd cross roads in ward no. 01.
Name of Agency	Sri. Kumar Reddy
Grade of Concrete	M-15
Location	Covering slab
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	CC-Work	150.02 X 150.06 X 150.0	22512	12/05/2017	19/05/2017	7	8.15	250	11.11	11.20
2		150.08 X 150.07 X 150.0	22523				8.16	252	11.20	
3		150.06 X 150.09 X 150.0	22523				8.17	254	11.29	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at Vinayaka layout 3rd cross roads in ward no. 01.
Name of Agency	Sri. Kumar Reddy
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.03 X 150.06 X 150.0	22514	15/05/2017	22/05/2017	7	8.17	338	15.02	15.17
2		150.05 X 150.07 X 150.0	22518				8.16	342	15.20	
3		150.06 X 150.09 X 150.0	22523				8.18	344	15.29	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at Vinayaka layout 3rd cross roads in ward no. 01.
Name of Agency	Sri. Kumar Reddy
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.02 X 150.06 X 150.0	22512	15/05/2017	22/05/2017	7	8.15	340	15.11	15.23
2		150.04 X 150.07 X 150.0	22517				8.16	342	15.20	
3		150.05 X 150.06 X 150.0	22517				8.17	346	15.38	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at Vinayaka layout 3rd cross roads in ward no. 01.
Name of Agency	Sri. Kumar Reddy
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.02 X 150.02 X 150.0	22506	15/05/2017	22/05/2017	7	8.16	342	15.20	15.32
2		150.04 X 150.06 X 150.0	22515				8.18	344	15.29	
3		150.05 X 150.07 X 150.0	22518				8.19	348	15.47	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at Vinayaka layout 3rd cross roads in ward no. 01.
Name of Agency	Sri. Kumar Reddy
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-4	150.06 X 150.02 X 150.0	22512	15/05/2017	22/05/2017	7	8.15	344	15.29	15.35
2		150.05 X 150.06 X 150.0	22517				8.19	342	15.20	
3		150.05 X 150.07 X 150.0	22518				8.20	350	15.56	

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